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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	3 Sets	–	6	6
10	RCC(M20)	Compressive Strength(7days and 28days)	2 Sets	–	4	4
11	RCC(M25)	Compressive Strength(7days and 28days)	8 Sets	–	16	16
12	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID : **CP-2022-08-17-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 18-08-2022**

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 17-08-2022

Sample Type : Gopal

Source of Sample : Amphitheatre

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 17-08-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Gopal	Fe550	8	0.391	559	659	20.0%	Satisfactory	Satisfactory
2	Gopal	Fe550	10	0.616	563	662	20.0%	Satisfactory	Satisfactory
3	Gopal	Fe550	12	0.888	582	679	20.0%	Satisfactory	Satisfactory
4	Gopal	Fe550	16	1.581	573	669	20.0%	Satisfactory	Satisfactory
5	Gopal	Fe550	20	2.476	586	679	20.0%	Satisfactory	Satisfactory
6	Gopal	Fe550	25	3.472	598	685	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

A.E.E. (Project)

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-24-01** **Date: 30/08/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 24-08-2022

Customer ID : Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Deck Slab Concrete	M20	23/08/2022	30/08/2022	150.94 X 150.89 X 151.83	22775	8.286	325.7	14.3	14.3
2	Deck Slab Concrete	M20	23/08/2022	30/08/2022	150.78 X 149.12 X 151.83	22485	8.542	312.5	13.9	
3	Deck Slab Concrete	M20	23/08/2022	30/08/2022	151.53 X 151.23 X 151.92	22915	8.592	339.1	14.8	

* The results obtained are satisfactory as per standard requirements.

A.E.E. (Project)

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-24-01**

Date: 20/09/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 24-08-2022

Customer ID : Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Deck Slab Concrete	M20	23/08/2022	20/09/2022	150.34 X 150.93 X 149.06	22691	8.352	506.0	22.3	
2	Deck Slab Concrete	M20	23/08/2022	20/09/2022	150.65 X 149.84 X 151.59	22573	8.564	494.3	21.9	22.5
3	Deck Slab Concrete	M20	23/08/2022	20/09/2022	149.19 X 151.56 X 149.83	22612	8.802	529.1	23.4	

* The results obtained are satisfactory as per standard requirements.

A.E.E. (Project)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-24-01** **Date: 30/08/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 24-08-2022

Customer ID : Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Deck Slab Concrete	M20	23/08/2022	30/08/2022	149.95 X 151.45 X 151.13	22710	8.202	306.6	13.5	14.3
2	Deck Slab Concrete	M20	23/08/2022	30/08/2022	151.99 X 150.44 X 150.49	22867	9.066	333.9	14.6	
3	Deck Slab Concrete	M20	23/08/2022	30/08/2022	149.70 X 149.19 X 151.72	22333	8.713	330.5	14.8	

* The results obtained are satisfactory as per standard requirements.

A.E.E (Project)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-24-01**

Date: 20/09/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 24-08-2022

Customer ID : Deck Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Deck Slab Concrete	M20	23/08/2022	20/09/2022	149.92 X 151.93 X 151.04	22778	8.898	521.6	22.9	23.3
2	Deck Slab Concrete	M20	23/08/2022	20/09/2022	149.89 X 149.10 X 151.53	22348	8.169	527.4	23.6	
3	Deck Slab Concrete	M20	23/08/2022	20/09/2022	150.50 X 149.01 X 150.47	22426	8.473	527.0	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-09-07-01**	**Date: 09-09-2022**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency	
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149	
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22	
Date of Receipt	:	07-09-2022	
Sample Type	:	Fine Aggregate (M-Sand)	
Source of Sample	:	Amphitheatre	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	07-09-2022	
Total weight taken	:	1000 grams	

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-07-01** **Date: 09-09-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-07-01** **Date: 09-09-2022**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22
Date of Receipt	:	07-09-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Source of Sample	:	Amphitheatre
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-09-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-07-01** **Date: 09-09-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-07-01** **Date: 10-09-2022**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22
Date of Receipt	:	07-09-2022
Sample Type	:	40mm down size coarse aggregate
Source of Sample	:	Amphitheatre
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-09-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-07-01** **Date: 10-09-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-09-07-01** **Date: 09-09-2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 07-09-2022

Sample Type : Penna 53 grade

Source of Sample : Amphitheatre

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 07-09-2022

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92
25/1/23

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-09-07-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 06-10-2022**

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 07-09-2022

Sample Type : Penna 53 grade

Source of Sample : Amphitheatre

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 07-09-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST RESULTS OF STEEL

Lab ID : **CP-2022-09-07-01**

Date: 08-09-2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 07-09-2022

Sample Type : Gopal

Source of Sample : Amphitheatre

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 07-09-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Gopal	Fe550	8	0.391	562	659	20.0%	Satisfactory	Satisfactory
2	Gopal	Fe550	10	0.616	569	663	20.0%	Satisfactory	Satisfactory
3	Gopal	Fe550	12	0.888	573	672	20.0%	Satisfactory	Satisfactory
4	Gopal	Fe550	16	1.581	587	682	20.0%	Satisfactory	Satisfactory
5	Gopal	Fe550	20	2.476	589	689	20.0%	Satisfactory	Satisfactory
6	Gopal	Fe550	25	3.472	593	691	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-13-01**

Date: 19/09/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 13-09-2022

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	12/09/2022	19/09/2022	150.98 X 151.00 X 149.93	22798	8.847	394.4	17.3	17.8
2	Footing Concrete	M25	12/09/2022	19/09/2022	149.33 X 150.98 X 151.74	22545	8.459	403.6	17.9	
3	Footing Concrete	M25	12/09/2022	19/09/2022	151.25 X 151.17 X 151.91	22864	8.779	418.4	18.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-13-01** **Date: 10/10/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 13-09-2022

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	12/09/2022	10/10/2022	149.13 X 150.66 X 149.35	22468	8.947	581.9	25.9	26.3
2	Footing Concrete	M25	12/09/2022	10/10/2022	151.33 X 149.82 X 149.08	22672	9.006	594.0	26.2	
3	Footing Concrete	M25	12/09/2022	10/10/2022	150.84 X 151.18 X 151.24	22803	8.847	608.8	26.7	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2022-09-15-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Date: 21/09/2022

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 15-09-2022

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	14/09/2022	21/09/2022	151.54 X 150.84 X 151.80	22859	8.570	406.9	17.8	17.6
2	Column Concrete	M25	14/09/2022	21/09/2022	151.76 X 151.94 X 150.18	23058	8.507	419.7	18.2	
3	Column Concrete	M25	14/09/2022	21/09/2022	150.54 X 149.79 X 151.07	22549	8.247	381.1	16.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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Lab ID : **CP-2022-09-15-01**

Date: 12/10/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 15-09-2022

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	14/09/2022	12/10/2022	149.35 X 151.23 X 151.45	22586	8.803	598.5	26.5	26.5
2	Column Concrete	M25	14/09/2022	12/10/2022	150.26 X 150.55 X 149.34	22622	8.207	615.3	27.2	
3	Column Concrete	M25	14/09/2022	12/10/2022	149.68 X 149.85 X 151.70	22430	8.567	580.9	25.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-01**

Date: 27/09/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 21-09-2022

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	20/09/2022	27/09/2022	151.19 X 149.15 X 150.49	22550	8.325	396.9	17.6	17.7
2	Plinth Beam Concrete	M25	20/09/2022	27/09/2022	150.32 X 151.48 X 149.72	22770	8.254	416.7	18.3	
3	Plinth Beam Concrete	M25	20/09/2022	27/09/2022	150.53 X 149.60 X 151.36	22519	8.456	389.6	17.3	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-01** **Date: 18/10/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 21-09-2022

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Plinth Beam Concrete	M25	20/09/2022	18/10/2022	150.00 X 149.56 X 149.77	22434	8.651	601.2	26.8	27.4
2	Plinth Beam Concrete	M25	20/09/2022	18/10/2022	151.61 X 151.53 X 151.24	22973	8.213	624.9	27.2	
3	Plinth Beam Concrete	M25	20/09/2022	18/10/2022	149.32 X 150.32 X 151.36	22446	8.676	635.2	28.3	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-07-01** **Date: 13/10/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 07-10-2022

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	06/10/2022	13/10/2022	150.48 X 150.48 X 149.01	22644	8.999	405.3	17.9	17.3
2	Column Concrete	M25	06/10/2022	13/10/2022	150.03 X 149.08 X 151.20	22365	8.998	378.0	16.9	
3	Column Concrete	M25	06/10/2022	13/10/2022	151.56 X 149.07 X 149.27	22592	8.306	386.3	17.1	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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Format No: CP/TF/01

Lab ID : **CP-2022-10-07-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Date: 03/11/2022

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 07-10-2022

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	06/10/2022	03/11/2022	150.54 X 150.79 X 150.99	22700	8.336	601.5	26.5	27.5
2	Column Concrete	M25	06/10/2022	03/11/2022	151.46 X 151.54 X 150.95	22952	8.456	638.1	27.8	
3	Column Concrete	M25	06/10/2022	03/11/2022	149.60 X 150.55 X 151.32	22522	8.756	637.4	28.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-08-01** **Date: 10-10-2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 08-10-2022

Sample Type : Fine Aggregate (M-Sand)

Source of Sample : Amphitheatre

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-10-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-08-01**

Date: 10-10-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Format No: CP/TF/01

Lab ID	:	**CP-2022-10-08-01**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 12-10-2022**
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22
Date of Receipt	:	08-10-2022
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Source of Sample	:	Amphitheatre
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-10-2022

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	198	201	15840	31.003	1957.3	2026.0	Not less than 1800Kg/m^3
2	403	203	201	16444	33.722	2050.8		
3	399	202	198	15958	33.032	2069.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2022-10-08-01**

DIMENSION ANALYSIS

Date: 12-10-2022

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	202	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
2	402	201	203	
3	402	200	202	
4	400	203	202	
5	399	200	199	
6	399	201	201	
7	403	203	200	
8	403	202	203	
9	401	200	199	
10	402	199	202	
11	402	199	199	
12	402	202	200	
13	403	199	199	
14	402	203	203	
15	403	200	199	
16	402	201	199	
17	402	203	201	
18	403	203	203	
19	401	201	201	
20	404	200	201	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2022-10-08-01**

COMPRESSIVE STRENGTH: **Date: 12-10-2022**

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80037	376.3	4.7	4.7
2	403	201	81269	377.4	4.6	
3	401	200	80272	373.5	4.7	
4	401	202	81119	376.4	4.6	
5	402	202	81202	374.8	4.6	
6	400	202	80822	378.6	4.7	
7	403	199	80191	373.7	4.7	
8	400	199	79745	373.0	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Asst. Executive Engineer
Project Division
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BBMP, Bangalore - 92

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Format No: CP/TF/01

Lab ID	:	**CP-2022-10-08-01**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 12-10-2022**
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22
Date of Receipt	:	08-10-2022
Source of Sample	:	Amphitheatre
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-10-2022

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	101	203	8283	17.189	2075.2	1998.7	Not less than 1800Kg/m^3
2	398	102	202	8200	17.939	2187.6		
3	401	103	201	8302	14.390	1733.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2022-10-08-01**

Date: 12-10-2022

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	102	201	
2	400	102	201	
3	400	100	202	
4	401	101	199	
5	402	100	202	
6	401	101	203	
7	400	100	200	
8	401	103	201	
9	399	101	199	
10	404	101	203	
11	401	99	203	
12	401	102	200	
13	402	103	199	
14	401	101	203	
15	403	100	199	
16	399	103	202	
17	403	101	199	
18	403	102	201	
19	400	100	202	
20	402	102	203	
Average of 20	**401**	**101**	**201**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Lab ID : **CP-2022-10-08-01**

Date: 12-10-2022

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	99	39671	184.9	4.7	4.6
2	401	103	41238	189.8	4.6	
3	401	102	41009	185.5	4.5	
4	403	99	39988	187.5	4.7	
5	403	100	40203	185.6	4.6	
6	402	100	40355	188.6	4.7	
7	401	101	40312	185.5	4.6	
8	401	101	40390	190.0	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Asst. Executive Engineer
Project Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01**

Date: 27/10/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Lintel & Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel & Chejja Concrete	M25	20/10/2022	27/10/2022	150.76 X 150.06 X 150.25	22623	8.632	436.6	19.3	18.7
2	Lintel & Chejja Concrete	M25	20/10/2022	27/10/2022	150.62 X 150.36 X 150.25	22647	8.659	421.2	18.6	
3	Lintel & Chejja Concrete	M25	20/10/2022	27/10/2022	149.50 X 151.82 X 150.04	22697	8.201	410.8	18.1	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-10-22-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 17/11/2022**

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Lintel & Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel & Chejja Concrete	M25	20/10/2022	17/11/2022	150.32 X 151.86 X 151.82	22828	8.352	630.0	27.6	27.3
2	Lintel & Chejja Concrete	M25	20/10/2022	17/11/2022	150.44 X 150.83 X 149.06	22691	8.969	608.1	26.8	
3	Lintel & Chejja Concrete	M25	20/10/2022	17/11/2022	151.55 X 150.39 X 150.78	22792	8.469	626.8	27.5	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-10-22-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Date: 28/10/2022

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	21/10/2022	28/10/2022	149.33 X 149.19 X 150.63	22278	8.630	258.4	11.6	
2	Coping Concrete	M15	21/10/2022	28/10/2022	149.99 X 150.28 X 150.50	22541	8.630	302.0	13.4	13.1
3	Coping Concrete	M15	21/10/2022	28/10/2022	149.95 X 149.63 X 149.25	22437	9.021	320.8	14.3	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01**

Date: 18/11/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	21/10/2022	18/11/2022	149.43 X 151.67 X 149.65	22664	8.862	367.2	16.2	16.8
2	Coping Concrete	M15	21/10/2022	18/11/2022	150.83 X 150.47 X 150.59	22695	9.099	392.6	17.3	
3	Coping Concrete	M15	21/10/2022	18/11/2022	151.46 X 150.36 X 150.83	22775	8.650	384.9	16.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-09-01** **Date: 16/11/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 09-11-2022

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 8 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Roof Concrete	M25	08/11/2022	16/11/2022	151.75 X 151.66 X 152.09	23014	8.094	745.3	32.4	30.8
2	Roof Concrete	M25	08/11/2022	16/11/2022	150.45 X 150.98 X 151.61	22715	8.234	729.3	32.1	
3	Roof Concrete	M25	08/11/2022	16/11/2022	154.01 X 154.79 X 155.73	23839	8.506	666.3	27.9	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-11-09-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 06/12/2022**

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 09-11-2022

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	08/11/2022	06/12/2022	152.20 X 153.37 X 152.79	23342	8.316	801.2	34.3	32.7
2	Roof Concrete	M25	08/11/2022	06/12/2022	152.53 X 150.89 X 152.68	23016	8.199	8.123	33.0	
3	Roof Concrete	M25	08/11/2022	06/12/2022	154.41 X 152.44 X 152.58	23538	8.493	8.235	30.8	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Yelahanka Zone
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-09-01** **Date: 15/11/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 09-11-2022

Customer ID : Gallery Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Gallery Footing Concrete	M25	08/11/2022	15/11/2022	151.13 X 149.43 X 149.31	22583	8.583	388.4	17.2	17.1
2	Gallery Footing Concrete	M25	08/11/2022	15/11/2022	149.08 X 150.59 X 150.07	22450	9.099	379.4	16.9	
3	Gallery Footing Concrete	M25	08/11/2022	15/11/2022	150.34 X 150.45 X 150.47	22619	8.938	391.3	17.3	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-09-01**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency **Date: 06/12/2022**

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 09-11-2022

Customer ID : Gallery Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Gallery Footing Concrete	M25	08/11/2022	06/12/2022	149.19 X 151.41 X 151.48	22590	8.109	598.6	26.5	26.6
2	Gallery Footing Concrete	M25	08/11/2022	06/12/2022	151.20 X 151.48 X 150.10	22904	8.595	616.1	26.9	
3	Gallery Footing Concrete	M25	08/11/2022	06/12/2022	149.45 X 149.90 X 149.81	22402	8.885	591.4	26.4	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-14-01**

Date: 19/11/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 14-11-2022

Customer ID : Gallery Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Gallery Column Concrete	M25	12/11/2022	19/11/2022	149.77 X 150.47 X 150.01	22536	8.461	396.6	17.6	17.6
2	Gallery Column Concrete	M25	12/11/2022	19/11/2022	150.80 X 150.78 X 151.62	22738	8.273	413.8	18.2	
3	Gallery Column Concrete	M25	12/11/2022	19/11/2022	149.66 X 151.00 X 149.99	22599	8.439	386.4	17.1	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka
BBMP

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-14-01** **Date: 10/12/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 14-11-2022

Customer ID : Gallery Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Gallery Column Concrete	M25	12/11/2022	10/12/2022	151.25 X 149.48 X 151.52	22609	8.483	585.6	25.9	26.8
2	Gallery Column Concrete	M25	12/11/2022	10/12/2022	151.72 X 150.31 X 151.50	22805	8.761	611.2	26.8	
3	Gallery Column Concrete	M25	12/11/2022	10/12/2022	150.79 X 151.95 X 151.09	22913	8.869	637.0	27.8	

* The results obtained are satisfactory as per standard requirements.

16/1/23
Asst. Executive Engineer
Project Division
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2022-11-17-01** **Date: 21-11-2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 17-11-2022

Sample Type /Size : Precast Cover Slab (230 mm)

Source of Sample : Amphitheatre

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 17/11/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.03	100.49	2.135	7857	150.5	19.2	17.8	22.3
2	Cover Slab-2	100.01	100.56	2.245	7854	159.8	20.3	18.9	23.7
3	Cover Slab-3	100.04	100.53	2.365	7859	162.3	20.7	19.2	24.0

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Yeshwanthpur Division
Yeshwanthpura Zone
Bangalore - 92

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2022-11-17-01** **Date: 21-11-2022**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/11/2021-22
Date of Receipt	:	17-11-2022
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-11-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-11-17-01** **Date: 21-11-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01**

Date: 28/10/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	21/10/2022	28/10/2022	150.24 X 150.54 X 149.32	22617	8.938	300.2	13.3	12.9
2	Coping Concrete	M15	21/10/2022	28/10/2022	151.70 X 151.69 X 150.57	23012	8.742	297.5	12.9	
3	Coping Concrete	M15	21/10/2022	28/10/2022	151.60 X 149.59 X 151.41	22678	8.452	280.6	12.4	

* The results obtained are satisfactory as per standard requirements.

Executive Engineer
Project Division
Yelahanka Zone
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01** **Date: 18/11/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	21/10/2022	18/11/2022	151.01 X 149.07 X 151.49	22511	8.676	405.5	18.0	17.4
2	Coping Concrete	M15	21/10/2022	18/11/2022	149.01 X 151.63 X 149.06	22594	8.893	397.9	17.6	
3	Coping Concrete	M15	21/10/2022	18/11/2022	149.31 X 150.79 X 151.19	22515	8.217	372.2	16.5	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01**

Date: 28/10/2022

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	21/10/2022	28/10/2022	151.07 X 151.02 X 149.10	22814	8.603	294.5	12.9	12.6
2	Coping Concrete	M15	21/10/2022	28/10/2022	151.66 X 150.13 X 150.58	22768	8.458	262.9	11.5	
3	Coping Concrete	M15	21/10/2022	28/10/2022	151.31 X 150.79 X 149.68	22815	8.994	306.0	13.4	

* The results obtained are satisfactory as per standard requirements.

Project Engineer
Project Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-10-22-01** **Date: 18/11/2022**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk.Zone/WO/11/2021-22

Date of Receipt : 22-10-2022

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Coping Concrete	M15	21/10/2022	18/11/2022	149.33 X 151.78 X 151.97	22666	8.474	407.3	18.0	17.3
2	Coping Concrete	M15	21/10/2022	18/11/2022	149.78 X 150.77 X 150.81	22582	8.629	398.0	17.6	
3	Coping Concrete	M15	21/10/2022	18/11/2022	151.76 X 149.38 X 150.32	22670	8.943	370.1	16.3	

* The results obtained are satisfactory as per standard requirements.

Asst Executive Engineer
Project Division
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